

Dr. Jean-José Orteu

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Areas of Research

(3D) vision-based metrology, vision-based process control and surveillance, vision-based NDT, PhotoMechanics.

Educational Background

- Diplôme d'ingénieur ENSEIRB Bordeaux (1987). **Engineering degree.**
- DEA de l'Université de Bordeaux I (1987). **Master Thesis.**
- Doctorat de l'Université Paul Sabatier de Toulouse (1991). **Ph.D. Thesis.**
- Habilitation à Diriger des Recherches (2000). **Accreditation to supervise research.**
- Promoted to **full professor** (2002).
- Professeur de classe exceptionnelle (2015).

Experience and Responsibilities

- At Ecole des Mines d'Albi since 1992.
- Researcher at Institut Clément Ader (ICA) research laboratory.
- Head of the "Electrical Engineering and Automatic Control" department from 1992 to 2000.
- Head of the CROMeP's "Dimensional and Thermal Optical Measurement" group from 2000 to 2007.
- Deputy Director of the French CNRS research network GDR 2519 MCIMS on "Full-field Measurements and Identification in Solid Mechanics" from 2003 to 2010 (21 research laboratories and 1 company).
- Head of the Institut Clément Ader's "Metrology, Identification, Control and Monitoring" group from 2008 to 2015 (30 people).
- Deputy Director of the ICA-Albi research center from 2007 to 2019 (70 people).
- Head of the AMPAS (Advanced Manufacturing Processes for Aeronautical Structures) Advanced Master from September 2019.

Society Affiliations

French Optical Society (SFO); European Optical Society (EOS); French Mechanics Society (AFM); Society for Experimental Mechanics (SEM); French NDT Society (COFREND); French CNRS research network on "Information-Signal-Image-Vision" (GDR 720 ISIS).

178 journal articles or conference papers (H-index Scopus: 18 ; number of citations: 3620 ; mean number of citations: 63)

Recent publications

1. I. Mikhailov, I. Jovančević, N.I. Mokhtari, J.-J. Orteu. Classification using a three-dimensional sensor in a structured industrial environment. **Journal of Electronic Imaging**, SPIE and IS&T, 2020.

2. H. Ben Abdallah, J.-J. Orteu, I. Jovančević, B. Dolives. Three-dimensional point cloud analysis for automatic inspection of complex aeronautical mechanical assemblies. **Journal of Electronic Imaging**, SPIE and IS&T, 2020.
3. H. Ben Abdallah, I. Jovančević, J.-J. Orteu, L. Brèthes. Automatic Inspection of Aeronautical Mechanical Assemblies by Matching the 3D CAD Model and Real 2D Images. **Journal of Imaging**, MDPI, 2019.
4. R. Gilblas, T. Sentenac, J.-J. Orteu, M. Sauvé, G. Sierra, P. Gacoin, O. Guillaumon, Detection of micro-cracks on highly specular reflectors: dimensioning a vision machine based on optical properties, **IEEE Sensors Journal**, 2017.
5. I. Jovancevic, H.-H. Pham, J.-J. Orteu, R. Gilblas, J. Harvent, X. Maurice, L. Brèthes, 3D point cloud analysis for detection and characterization of defects on airplane exterior surface, **Journal of Non Destructive Evaluation**, 2017.
6. I. Viana, J.-J. Orteu, N. Cornille, F. Bugarin, Inspection of aeronautical mechanical parts with a pan-tilt-zoom camera: an approach guided by the computer-aided design model, **Journal of Electronic Imaging**, 2015.
7. I. Jovancevic, S. Larnier, J.-J. Orteu, T. Sentenac, Automated exterior inspection of an aircraft with a pan-tilt-zoom camera mounted on a mobile robot, **Journal of Electronic Imaging**, 2015.
8. B. Karabagli, T. Simon, J.-J. Orteu, A new chain-processing-based computer vision system for automatic checking of machining set-up - Application for machine tools safety, **International Journal of Advanced Manufacturing Technology**, 2015.

Graduate Students Advised: 14 Ph.D. and 22 MS

Participation to 58 Ph.D. oral defense committees

Member of 45 Conference Scientific Committees and 1 Journal Editorial Board

Member of 33 Conference Organizing Committees

Participation to 132 conferences (50 international)

Participation to 24 research projects (6 European projects ; 16 industry-oriented projects)

Awards and Honors

- Advisor of Igor Jovancevic's PhD thesis who got the **2017** Aerospace Valley Prize.
- Advisor of Florian Bugarin's PhD thesis who got the **2012** Leopold Escande Prize (this is a prize awarded by The Institut National Polytechnique de Toulouse to the top 10% theses of year 2012).
- **2011** Hetényi Award for the best research paper published in Experimental Mechanics in 2009. <http://dx.doi.org/10.1007/s11340-008-9204-7>
- Chevalier dans l'Ordre des Palmes académiques (French decoration for services to education by the Ministry of Education), July **2010**.
- Advisor of Dorian Garcia's PhD thesis who got the **2002** Leopold Escande Prize (this is a prize awarded by The Institut National Polytechnique de Toulouse to the top 10% theses of year 2001).